

Curriculum vitae

Björn Lindblom

- born on June 19th 1934 in Stockholm, Sweden;
- Swedish citizen (340619-0490);
- married to Ann-Mari Lindblom (née Ståhlacke);
- two children: Ann Lindblom, dietician, (b 1960) & John Lindblom, journalist, (b 1965).
- Current address: 45A Torphagsvägen, S-10405 Stockholm, Sweden & Dept of Linguistics, Stockholm University, S-10691 Stockholm Sweden.

Education

degree	institution & location	year	field of study
Fil mag	Stockholm University	1960	English, Romance lg's
Fil lic	Uppsala University	1963	Phonetics
Fil dr (≈ Ph D)	Lund University	1968	Phonetics

Employment

Research assistant	Speech Transmission Laboratory, Royal Institute of Technology (KTH) in Stockholm (60-68), head: Prof G Fant;
Post-doctoral fellow	Department of Speech Communication, MIT, Cambridge Mass (63-64) head: Prof K N Stevens;
Guest researcher	Haskins Laboratories, New York (fall 64);
Docent (ass prof) & director of Phonetics Laboratory	Stockholm University (68-73);
Professor of speech physiology and speech perception (personal chair, Swedish Council for Research in the Humanities and the Social Sciences)	Stockholm University (73-87);
Visiting professor	Department of Linguistics, University of Texas at Austin (spring 78);
Professor of Linguistics	Department of Linguistics, University of Texas at Austin (87-89);
E&S Adams Sr Centennial Professor of Linguistics	Department of Linguistics, University of Texas at Austin (89-94);
Guest researcher	Département Signal, École Nationale Supérieure des Télécommunications, Paris, France, (spring-94).
Professor of phonetics	Stockholm University 94-;
Emeritus professor	Stockholm University 99;

Björn Lindblom CV
5/12/00

Visiting professor (fall semesters)

Department of Linguistics, University of Texas at Austin (97-);

Awards and honors

President

Permanent Council, International Congress of Phonetic Sciences, 1991-99;

Fellow

Center for Advanced Study in the Behavioral Sciences, Stanford, California (1985-86);

Zorn Fellowship

Sweden-America Foundation (1985)

Presidential Medal

Helsinki University (1984)

Honorary member

Svensk Förening för Foniatri och Logopedi, Sweden, (1975);

Fellow

Acoustical Society of America, (1970).

Recipient of Festschrift (60th birthday)

Kohler K & Engstrand O (eds): **Speaker, Listener and the Child**, *Phonetica* vol 51.

Symposium 99

Kohler K & Engstrand O, Diehl R & Kingston J (eds): Speech Communication and Language Development, International Symposium organized at Stockholm University on the occasion of 65th birthday (to be published by *Phonetica*).

Special assignments

International Member

Advisory Board of LOT, Netherlands Graduate School of Linguistics, Universiteit Utrecht (1995-98).

Consilium member

Academia Rodinensis Pro Remediatione (1989-).

Board member

Center for Speech Technology CTT, KTH (1996-98).

Member

Users' Committee for the Microbeam Project, sponsored by NIH, Waisman Center, University of Wisconsin, Madison, Wisconsin (1988-1989).

International Member

Board of Advisors, Institute for Functional Research on Language and Language Use (IFOTT), Amsterdam, the Netherlands (1988-).

International Member

Conseil Scientifique du Centre National d'Études des Télécommunications (CNET), Lannion, France (1981-85).

Member

Study Section on Linguistics, the Swedish Council for Research in the Humanities and the Social Sciences (1994-96).

Member

'Speech&Sound&Hearing' Study Section of the Swedish Council for Interdisciplinary Research ('Tal-Ljud-Hörsel'-programmet, FRN), (1979-86).

Grants awarded

- 1987- *Speech Transforms*, STU, (Swedish National Board of Technological Development)
- 1988-90 *Acoustic specification of speech*, Texas Advanced Research Program
- 1990-92 *Auditory modeling of speech processes*, Texas Advanced Research Program, (with Randy Diehl)
- 1990-94 *Acoustical structure of speech: Hypo&hyper patterns*; National Science Foundation, \$560,000.
- 1990-93 *Fonetisk typologi*, HSFR, Sweden.
- 1993-96 *APEX: experimentella och komputationella studier av talets produktion*, HSFR.
- 1993-96 *Emergent phonology*, HSFR.
- 1995 FRN grant to SU Phonetics Laboratory, \$350,000 (computer equipment)
- 1996-97 *The variability of speech*, NUTEK
- 1997-2000 *X-ray analyses of speech and articulatory modeling*, HSFR \$250,000
- 1998 *Measuring the energy costs of speech movements*, NSF \$8,000 (with J H Davis, UT Austin Tx)

Grants pending

- 1999 *Modeling Coarticulation: An Integrated Phonetic Approach*, NIH, (with H M Sussman, UT Austin Tx)
- 1999 *Energetics in speech production*, Texas Advanced Research Program, (with J H Davis, UT Austin Tx)

Theses supervised

- Brownlee S A (1996): *The role of sentence stress in vowel reduction and formant undershoot: A study of lab speech and spontaneous informal conversations*, Doctoral dissertation, Department of Linguistics, University of Texas at Austin.
- Hura S (1993): *Dynamic aspects of speech perception*, Doctoral dissertation, Department of Linguistics, University of Texas at Austin.
- Moon S-J (1991): *An acoustic and perceptual study of undershoot in clear and citation-form speech*, Doctoral dissertation, Department of Linguistics, University of Texas at Austin.
- Willerman R (1994): *The phonetics of pronouns*, Doctoral dissertation, Department of Linguistics, University of Texas at Austin.
- Christine Ericsson (1999): *Modeling lingual coarticulation in coronal stops*, Master thesis in Phonetics, Department of Linguistics, Stockholm University.

Selected publications

- Lindblom B (1990): "On the notion of 'possible speech sound'", *J of Phonetics* 18, 135-152.
- Lindblom B (1990): "Explaining phonetic variation: A sketch of the H&H theory", in Hardcastle W & Marchal A (eds): *Speech Production and Speech Modeling*, 403-439, Dordrecht:Kluwer.
- Lindblom B (1990): "Adaptive complexity in sound patterns", 743-744 in *Behavioral and Brain Sciences* 13, commentary on target article by Pinker S & Bloom P: "Natural language and natural selection", same issue, 707-784.
- Sundberg J & Lindblom B (1990): "Acoustic estimations of the front cavity in apical stops", *J Acoust Soc Am* 88(3):1313-1317.
- Lindblom B (1991): "The status of phonetic gestures", 7-24 in Mattingly I G & Studdert-Kennedy M (eds): *Modularity and the Motor Theory of Speech Perception*, Proceedings of a Conference to Honor Alvin M Liberman, Hillsdale, N J:LEA.
- Lindblom B (1992): "Phonological units as adaptive emergents of lexical development", Ferguson C A, Menn L & Stoel-Gammon C (eds): *Phonological development: Models, research, implications*, 131-163, Parkton, Maryland:York Press Inc.
- Lindblom B (1992): "Role of Phonetic Content in Phonology", in Dressler W U, Luschützky H C, Pfeiffer O E & Rennison J R (eds): *Phonologica 1988, Sixth International Phonology Meeting*, 181-196, Cambridge:CUP.
- Lindblom B, Brownlee S, Davis B & Moon S-J (1992): "Speech transforms", *Speech communication* 11, 357-368.
- Hura S L, Lindblom B & Diehl R (1992): "On the role of perception in shaping phonological assimilation rules", *Language and Speech* 35(1,2), 59-72.
- Sundberg J, Lindblom B & Liljencrants J (1992): "Formant frequency estimates for abruptly changing area functions: A comparison between calculations and measurements", *J Acoust Soc Am* 91(6), 3478-3482.
- Lindblom B (1994): "Speech: Biological bases", 4161-4168 in Asher R E (ed): *Encyclopedia of Language and Linguistics*, Pergamon:New York.
- Moon S-J & Lindblom B (1994): "Interaction between duration, context and speaking style in English stressed vowels", *J Acoust Soc Am* 96(1):40-55.
- Lindblom B (1995): "A view of the future of phonetics", 22-30 in Bloothoof G, Hazan V, Huber D & Llisterra J (eds): *European Studies in Phonetics and Speech Communication*, CIP-Gegevens Koninklijke Bibliotheek:den Haag.
Also in *PERILUS IXX*, Working papers in phonetics, 7-16, Department of Linguistics, Stockholm University
- Moon S-J, Lindblom B & Lame J (1995): "A perceptual study of reduced vowels in clear and casual speech", In Elenius K & Branderud P (eds): *Proceedings ICPhS 95 Stockholm*, vol 2, pp. 670-677.
- Lindblom B (1996): "Role of articulation in speech perception: Clues from production", *J Acoust Soc Am* 99(3), 1683-1692.
- Lindblom B, Brownlee S A & Lindgren R (1996): "Formant undershoot and speaking styles: An attempt to resolve some controversial issues", 119-129 in Kohler K (ed): *Sound Patterns of Connected Speech: Description, Models and Explanation*, from a symposium organized at Kiel University.
- Lindblom B (1997): "Talet tar form", 11-32 in Söderbergh R (ed): *Från joller till läsning och skrivning*, Gleerups: Malmö.

- Chennoukh S, Carré R & Lindblom B (1997): "Locus equations in the light of articulatory modeling", *J Acoust Soc Am* 102(4), 2380-2389.
- Lindblom B (1998): "Systemic constraints and adaptive change in the formation of sound structure", 242-264 in Hurford J R, Aitchison J & Knight C (eds): *Evolution of Human Language, Social and Cognitive Bases*, Cambridge University Press.
- Lindblom B (1998): "An articulatory perspective on the 'locus equation'", commentary on target article by Sussman H M, Fruchter D, Hilbert J & Sirosh J: "Linear correlates in the speech signal: The orderly output constraint", *Behavioral and Brain Sciences* 21(2), 241-299.
- Lindblom B (1998): "A curiously ubiquitous articulatory movement", commentary on target article by MacNeilage P: "The frame/content theory of evolution of speech production", *Behavioral and Brain Sciences* 21, 499-546.
- Lindblom B (1999): "Emergent phonology", *Proceedings of the Twenty-fifth Annual Meeting of the Berkeley Linguistics Society*, University of California, Berkeley.
- Lindblom B (in press): "Developmental origins of adult phonology: The interplay between phonetic emergents and evolutionary adaptations", to appear in Kohler K, Diehl R, Engstrand O & Kingston J (eds): *Speech Communication and Language Development: Adaptation and emergence*, special issue of *Phonetica*.